

**WE CLAIM:**

1. A pesticidal compound comprising:
  - (a) at least one organic phenolic compound chosen from the group consisting of carvacrol, thymol, and combinations thereof; and
  - (b) at least one salt comprising a transition metal.
2. The pesticidal compound of claim 1, wherein the organic phenolic compound is extracted from a member of the family *Labiatae* or *Verbenacea*.
3. The pesticidal compound of claim 2, wherein the organic phenolic compound is extracted from a plant formed from genetically crossing *Nepeta racemosa*, *Escholcia splendens*, *Cedrelopsis grevei*, and *Lippia graveolens*.
4. The pesticidal compound of claim 1, wherein the transition metal comprises nickel, copper, zinc, cadmium, or combinations thereof.
5. The pesticidal compound of claim 4, wherein the transition metal salt comprises zinc.
6. The pesticidal compound of claim 4, wherein the transition metal salt further comprises chloride, sulfate, oxide, hydroxide, hydride, or combinations thereof.
7. The pesticidal compound of 6, wherein the transition metal salt comprises zinc chloride, zinc sulfate, or combinations thereof.
8. The pesticidal compound of claim 1, additionally comprising a carrier.

9. The pesticidal compound of claim 1, wherein the pesticidal compound is used as an insecticide, miticide, ovicide, fungicide, biocide, insect repellant, or combination thereof.
10. A pesticidal composition comprising:
- (a) at least one organic phenolic compound chosen from the group consisting of carvacrol, thymol, and combinations thereof;
  - (b) at least one transition metal salt; and
  - (c) at least one carrier.
11. The pesticidal composition of claim 10, wherein the ratio of the weight of carvacrol to the weight of thymol is about 100:1 to about 1:1.
12. The pesticidal composition of claim 11, wherein the ratio of the weight of carvacrol to the weight of thymol is about 50:1 to about 5:1.
13. The pesticidal composition of claim 12, wherein the ratio of the weight of carvacrol to the weight of thymol is about 10:1.
14. The pesticidal composition of claim 10, wherein the organic phenolic compound is extracted from a member of the family *Labiatae* or *Verbenacea*.
15. The pesticidal composition of claim 14, wherein the organic phenolic compound is extracted from a plant formed from crossing *Nepeta racemosa*, *Escholcia splendens*, *Cedrelopsis grevei*, and *Lippia graveolens*.
16. The pesticidal composition of claim 10, wherein the transition metal salt comprises nickel, copper, zinc, cadmium, or combinations thereof.

17. The pesticidal composition of claim 16, wherein the transition metal salt comprises zinc.
18. The pesticidal composition of claim 17, wherein the transition metal salt further comprises chloride, sulfate, oxide, hydroxide, hydride, or combinations thereof.
19. The pesticidal composition of claim 18, wherein the transition metal salt comprises zinc chloride, zinc sulfate, or combinations thereof.
20. The pesticidal composition of claim 10, wherein the carrier is Sorbitol, Tween 200, Tween 600, propylene glycol, polyethylene glycol, ethanol methanol, a phosphate ester surfactant, or combinations thereof.
21. The pesticidal composition of claim 10, wherein the carrier is silicon dioxide, zinc oxide, talc, diatomaceous earth, clays, calcium carbonate, wheat flour, powdered nut hulls, or combinations thereof.
22. The pesticidal composition of claim 10, wherein the composition comprises 0.01 to 15 wt-% organic phenolic compound.
23. The pesticidal composition of claim 22, wherein the composition comprises 0.1 to 15 wt-% organic phenolic compound.
24. The pesticidal composition of claim 23, wherein the composition comprises 0.4 to 13.5 wt-% organic phenolic compound.
25. The pesticidal composition of claim 10, wherein the pesticidal compound is used as an insecticide, miticide, ovicide, fungicide, biocide, insect repellent, or combinations thereof.

26. A method of having a detrimental effect on a pest in a desired area comprising the steps of:

- (a) reacting an organic phenolic compound with a transition metal salt to form a pesticidal compound;
- (b) mixing the pesticidal compound with one or more acceptable carriers to form a pesticidal composition; and
- (c) applying the pesticidal composition to the desired area to cause the detrimental effect to the pest.

27. The method of claim 26, wherein having a detrimental effect is to inhibit the growth, repel the pest, prevent an infestation, or combinations thereof.

28. The method of 26, wherein the desired area comprises at least one plant, or at least one animal.

29. The method of claim 38, wherein said pest is chosen from the group consisting of insects, mites, ova, fungi, microorganisms, parasites, or combinations thereof.

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